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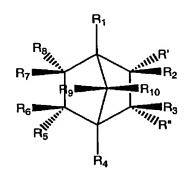
IN THE CLAIMS

(Currently Amended) A thermoplastic <u>formulation formed by combining-:</u>

(a) a polymer; and

(b) at least one small particle size nucleator compound, said compound conforming conforming to the structure of Formula (I) below:

(l)



wherein R_1 , R_2 , R_3 , R_4 , R_5 , R_6 , R_7 , R_8 , R_9 , and R_{10} are independently ividually selected from the group consisting of:

hydrogen, C_1 - C_9 alkyl, hydroxy, C_1 - C_9 alkoxy, C_1 - C_9 alkyleneoxy, amine, and C_1 - C_9 alkoxy, amine, and C_1 - C_9 alkyleneoxy, amine, and C_1 - C_9 alkoxy, amine, amine, and C_1 - C_9 alkoxy, amine, ami

wherein R' and R" are the same or different and are independently ividually selected from the group consisting of hydrogen, C₁-C₃₀ alkyl, hydroxy, amine, polyamine, polyoxyamine, C₁-C₃₀ alkylamine, phenyl, halogen, C₁-C₃₀ alkoxy, C₁-C₃₀ polyoxyalkyl, and esters; C(O)-NR₁₁C(O)O-R", and C(O)O-R"; and

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(c) wherein said small size nucleating compound is intimately associated with an anticaking agent, said anticaking agent being provided in a weight ratio of anticaking

agent to nucleating compound of from about 10:90 to about 30:70.

wherein R11 is selected from the group consisting of C1-C30 alkyl, hydrogen, C1-C30 alkoxy, and C1-C30 polyoxyalkyl, and wherein R" is selected from the group consisting of hydrogen, a metal ion (such as, without limitation, Na+, K+, Li+, Ag+ and any other menovalent ions), an organic cation (such as ammonium as one non-limiting example), polyexy-C2-C18-alkylene, C1-C30 alkyl, C₁-C₃₀-alkylene, C₁-C₃₀-alkyleneoxy, a steroid moiety (for example, cholesterol), phonyl, polyphonyl, C1-C30 alkylhalido, and C1-C30 alkylamino; whorein at least one of R' and R" is either C(O)-NR11C(O)O-R" or C(O)O-R", wherein if both R' and R" are C(O)O-R" then R" both R' and R" may be combined into a single bivalent metal ion (such as Ca2+, as one non-limiting example) or a single trivalent metal everbase (such as Al-OH, for one non-limiting example), and at least one anticaking agent.

2. (Currently Amended) _The thermoplastic formulation of Claim 1 wherein said small particle size nucleating compound additionally conforms to the structure of Formula (II)

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(II)

$$\begin{array}{c|c}
R_{10} & R_{9} \\
R_{7} & R_{8} & R_{1} \\
R_{6} & O & M_{1}
\end{array}$$

$$\begin{array}{c|c}
R_{10} & O & \bigoplus \\
R_{10} & O & \bigoplus \\
O & M_{1} & \bigoplus \\
O & M_{2} & O & \bigoplus$$

wherein M_1 and M_2 are the same or different and are independently selected from the group consisting of metal or organic cations or the two metal ions are unified into a single metal ion (bivalent, for instance, such as calcium, for example), and

wherein R_1 , R_2 , R_3 , R_4 , R_5 , R_6 , R_7 , R_8 , R_9 , and R_{10} are independently ividually selected from the group consisting of:

hydrogen, C₁-C₉ alkyl, hydroxy, C₁-C₉ alkoxy, C₁-C₉ alkyleneoxy, amine, and c₁-C₁-C₉ alkyleneoxy, amine, and c₁-C₉ alkyleneoxy, amine, amin

3. (Currently Amended) The <u>thermoplastic</u> formulation of Claim 1 wherein said metal or organic cation is a metal cation selected from the group consisting of Group I

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and Group II metal ions. ratio of said anticaking agent to said small size nucleating

compound is about 20:80.

4. (Currently Amended) The <u>thermoplastic formulation</u> of Claim 3 wherein said metal cation is selected from the group consisting of sodium, potassium, calcium, lithium, rubidium, barium, magnesium, and strontium, silver, zinc, <u>and aluminum</u>.

- 5. (Currently Amended) _The thermoplastic formulation of Claim 4 wherein said metal cation is sodium. _claim 1 wherein said nucleating agent is provided in a D95 particle size of less than or equal to about 10 micrometers at a mean volume diameter (MVD) of less than about 7.5.
- 6. (Currently Amended) _The thermoplastic_formulation of Claim 1 wherein said_said_anticaking agen_t anticaking agent is_is selected from the group of agents consisting of _: silica gel, talc, dihydrotalcite, and metal carboxylic acids_, and any mixtures thereof.
- 7. (Currently Amended) _The thermoplastic_formulation of Claim 6 wherein said anticaking agent comprises is a silica gel.
- 8. (Currently Amended) The thermoplastic <u>formulation article</u> of Claim 1 wherein said <u>polymer thermoplastic</u> comprises a polyolefin.

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9. (Currently Amended) The thermoplastic <u>formulation article</u> of Claim 2 wherein said <u>polymer thermoplastic</u> comprises a polyolefin.

- 10. (Currently Amended) The thermoplastic <u>formulation article</u> of Claim_1 wherein said small size nucleator compound comprises disodium bicyclo [2.2.1] heptane- 2,3- dicarboxylate. 6 wherein said thermoplastic comprises a polyelefin.
- 11. (Currently Amended) The thermoplastic <u>formulation article</u> of Claim <u>2.8</u> wherein said <u>small size nucleator compound comprises disodium bicyclo [2.2.1]</u>
 heptane- <u>2.3- dicarboxylate.</u> polyelefin is a polypropylene.
- 12. (Currently Amended) The thermoplastic <u>formulation article</u> of Claim 9 <u>wherein said polyolefin comprises polypropylene.</u> wherein said polyolefin is a <u>polypropylene</u>.
- 13. (Currently Amended) –The thermoplastic <u>formulation article</u> of Claim 10 wherein said polyolefin <u>comprises</u> is a polypropylene.
- 14. (New) The thermoplastic formulation of claim 1 wherein said small size nucleator compound is comprised of particles having a D95 size of less than or equal to about 5 microns at a mean volume diameter (MVD) of less than or equal to about 3.

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(New) The thermoplastic formulation of claim 2 wherein said small size nucleator compound is comprised of particles having a D95 size of less than or equal to about 5 microns at a mean volume diameter (MVD) of less than or equal to about 3.

- The thermoplastic formulation of claim 15 wherein said anticaking agent and small size nucleator agent are provided in a ratio of nucleator compound to anticaking agent of about 80:20.
- 17. (New) The thermoplastic formulation of claim 15 wherein said nucleator compound comprises disodium bicyclo [2.2.1] heptane-2,3 dicarboxylate.
- (New) The thermoplastic formulation of claim 16 wherein said nucleator compound comprises disodium bicyclo [2.2.1] heptane-2,3 dicarboxylate.
- 19. (New) The thermoplastic formulation of claim 18 wherein said polymer comprises polypropylene.